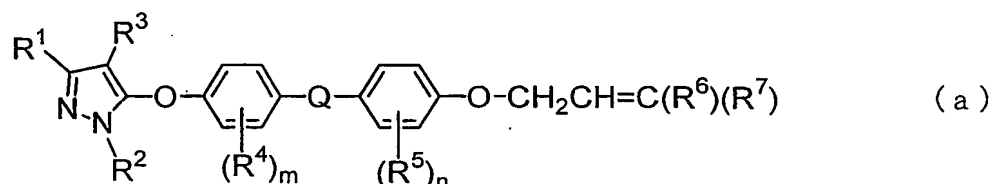


CLAIMS

1. A pyrazole compound represented by the formula(a):



5 wherein,

R¹ represents a hydrogen atom, a C1 to C4 alkyl group or a trifluoromethyl group;

R² represents a C1 to C4 alkyl group;

10 R³ represents a hydrogen atom, a C1 to C6 alkyl group, a C1 to C6 haloalkyl group, a C2 to C6 alkenyl group, a C2 to C6 haloalkenyl group, a C2 to C6 alkynyl group, a C2 to C6 haloalkynyl group, a C1 to C5 hydroxyalkyl group, a C2 to C6 alkoxyalkyl group, a C2 to C6 alkoxycarbonyl group, a C4 to C6 alkenyloxycarbonyl group, a C4 to C6 haloalkenyloxycarbonyl group, a halogen atom
15 or a cyano group;

R⁴ represents a halogen atom, a C1 to C3 alkyl group, a C1 to C3 alkoxy group, a C1 to C3 haloalkyl group or a C1 to C3 haloalkoxy group;

20 m represents an integer of 0 to 4 and when m is an integer of 2 to 4, each of R⁴s may be the same or different;

R⁵ represents a halogen atom, a C1 to C3 alkyl group, a C1 to C3 alkoxy group, a C1 to C3 haloalkyl group or a C1 to C3 haloalkoxy group;

25 n represents an integer of 0 to 4 and when n is an integer of 2 to 4, each of R⁵s may be the same or different;

each of R⁶ and R⁷ may be the same or different and represents a hydrogen atom, a halogen atom or a methyl group;
Q represents an oxygen atom, a sulfur atom or a C1 to C5 alkylidene.

- 5 2. The pyrazole compound according to claim 1, wherein
R¹ is a C1 to C4 alkyl group or a trifluoromethyl group;
R² is a C1 to C4 alkyl group;
R³ is a hydrogen atom, a C1 to C6 alkyl group, a C1 to C6 haloalkyl
group, a C2 to C6 alkenyl group, a C2 to C6 haloalkenyl group,
10 a C2 to C6 alkynyl group, a C2 to C6 haloalkynyl group, a C1
to C5 hydroxyalkyl group, a C2 to C6 alkoxyalkyl group, a C2
to C6 alkoxycarbonyl group, a C4 to C6 alkenyloxycarbonyl group,
a C4 to C6 haloalkenyloxycarbonyl group or a cyano group;
R⁴ is a halogen atom, a C1 to C3 alkyl group, a C1 to C3 alkoxy
15 group, a C1 to C3 haloalkyl group or a C1 to C3 haloalkoxy group;
m is an integer of 0 to 4 and when m is an integer of 2 to 4,
each of R⁴s may be the same or different;
R⁵ is a halogen atom, a C1 to C3 alkyl group, a C1 to C3 alkoxy
group, a C1 to C3 haloalkyl group or a C1 to C3 haloalkoxy group;
20 n is an integer of 0 to 4 and when n is an integer of 2 to 4,
each of R⁵s may be the same or different;
each of R⁶ and R⁷ may be the same or different and is a hydrogen
atom, a halogen atom or a methyl group;
Q represents an oxygen atom in the formula (a).

25

3. The pyrazole compound according to claim 1, wherein
R³ is a C1 to C6 alkyl group, a C1 to C6 haloalkyl group, a C2
to C6 alkenyl group or a C2 to C6 alkynyl group in the formula

(a).

4. The pyrazole compound according to claim 1, wherein R^3 is a halogen atom in the formula (a).

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5. The pyrazole compound according to claim 1, wherein R^1 is a C1 to C4 alkyl group or trifluoromethyl group in the formula (a).

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6. The pyrazole compound according to claim 1, wherein R^1 is a methyl group in the formula (a).

7. The pyrazole compound according to claim 1, wherein Q is an oxygen atom in the formula (a).

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8. The pyrazole compound according to claim 1, wherein m is an integer of 0 in the formula (a).

9. The pyrazole compound according to claim 1, wherein n is an integer of 0 in the formula (a).

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10. The pyrazole compound according to claim 1, wherein m is an integer of 0 and n is an integer of 0 in the formula (a).

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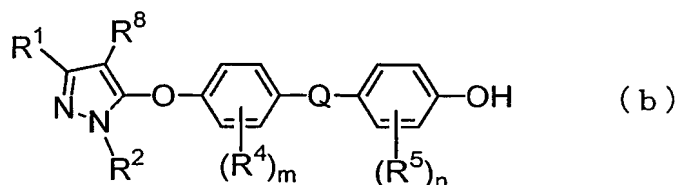
11. The pyrazole compound according to claim 1, wherein R^6 and R^7 are chlorine atoms in the formula (a).

12. A noxious arthropod pests controlling composition comprising the pyrazole compound according to claim 1 as an active ingredient and an inert carrier.

5 13. A method for controlling noxious arthropod pests comprising applying an effective amount of the pyrazole compound according to claim 1 to noxious arthropod pests or habitat noxious arthropod pests.

10 14. A use of the pyrazole compound according to claim 1 as a noxious arthropod pests controlling composition.

15. A compound of formula (b):



15 wherein,

R^1 represents a hydrogen atom, a C1 to C4 alkyl group or a trifluoromethyl group;

R^2 represents a C1 to C4 alkyl group;

20 R^8 represents a hydrogen atom, a C1 to C6 alkyl group, a C1 to C6 haloalkyl group, a C2 to C6 alkenyl group, a C2 to C6 haloalkenyl group, a C2 to C6 alkynyl group, a C2 to C6 haloalkynyl group, a C1 to C5 hydroxyalkyl group, a C2 to C6 alkoxyalkyl group, a C2 to C6 alkoxycarbonyl group, a C4 to C6 alkenyloxycarbonyl group, a C4 to C6 haloalkenyloxycarbonyl group, a carboxyl group,
25 a halogen atom or a cyano group;

R⁴ represents a halogen atom, a C1 to C3 alkyl group, a C1 to C3 alkoxy group, a C1 to C3 haloalkyl group or a C1 to C3 haloalkoxy group;

m represents an integer of 0 to 4 and when m is an integer of 2 to 4, each of R⁴s may be the same or different;

R⁵ represents a halogen atom, a C1 to C3 alkyl group, a C1 to C3 alkoxy group, a C1 to C3 haloalkyl group or a C1 to C3 haloalkoxy group;

n represents an integer of 0 to 4 and when n is an integer of 2 to 4, each of R⁵s may be the same or different;

Q represents an oxygen atom, a sulfur atom or a C1 to C5 alkylidene group.

16. The compound according to claim 15, wherein R⁸ is a C1 to C6 alkyl group, a C2 to C6 alkenyl group, a C2 to C6 alkynyl group or a halogen atom in the formula (b).